

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S11-LED-4FT-B-8-TW-ITL85173.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85173.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/17/15
[ISSUE DATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S11-LED-4ft-B-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 21.7 WATTS
[ABSOLUTE LUMENS]2359
[OTHER]see www.finelite.com for source file ITL85173. For further details on Finelite family correlation files, go to
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2359
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	20.2
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.43 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	13.380	12.865	14.409	18.012	15.439	4.632	2.058	1.544	1.544
95.0	41.170	40.140	40.655	41.170	32.421	18.012	10.292	6.690	6.175
97.5	69.474	69.988	69.474	66.901	52.491	32.936	22.129	17.497	15.953
100.0	103.439	103.439	101.380	94.690	74.620	49.918	36.023	28.819	27.789
102.5	141.520	141.006	136.889	126.596	99.322	68.444	50.947	42.199	40.655
105.0	182.690	182.175	175.485	161.076	127.111	88.515	67.930	57.123	55.064
107.5	227.977	226.433	217.170	198.129	156.444	111.158	85.942	73.591	71.018
110.0	275.836	274.292	261.942	237.754	189.380	134.830	106.012	91.088	88.000
112.5	326.784	324.211	308.772	276.865	222.316	161.076	126.596	109.614	106.526
115.0	379.789	376.702	359.719	319.064	257.310	187.322	147.696	130.199	125.567
117.5	434.339	430.737	408.094	362.292	293.333	216.655	170.339	151.298	145.637
120.0	490.433	483.228	459.556	406.550	330.901	248.047	195.041	171.883	167.251
122.5	547.041	539.322	512.047	451.322	367.439	280.468	219.743	195.041	186.807
125.0	604.164	594.386	563.509	496.094	406.550	313.918	246.503	218.199	209.965
127.5	659.228	648.421	613.942	540.866	446.690	348.912	274.807	243.930	236.725
130.0	711.719	700.398	662.316	584.094	486.830	383.906	303.626	269.661	261.427
132.5	762.667	750.316	709.146	627.322	526.971	420.959	335.532	296.936	288.187
135.0	809.497	795.602	751.860	667.977	566.596	457.497	368.982	325.754	314.947
137.5	851.696	835.743	791.485	707.602	605.193	494.550	405.006	355.088	343.251
140.0	889.263	872.795	827.509	742.596	642.246	531.088	442.058	386.994	373.614
142.5	921.170	905.216	859.415	775.018	677.754	567.111	479.111	420.959	405.006
145.0	948.444	933.006	887.205	804.351	710.690	602.620	519.766	458.012	440.000
147.5	970.573	956.164	910.877	830.596	742.082	637.099	556.304	497.637	477.567
150.0	988.070	974.175	930.947	853.754	769.871	670.035	594.386	539.322	518.222
152.5	1000.936	988.070	947.415	873.825	795.602	700.398	630.924	579.977	560.936
155.0	1009.684	998.363	959.766	891.322	818.760	731.275	666.433	620.117	602.620
157.5	1013.287	1004.023	969.029	905.216	839.345	759.579	700.398	657.684	642.760
160.0	1014.830	1006.596	974.690	917.053	858.386	786.339	732.304	694.222	681.357
162.5	1013.801	1005.567	977.778	926.316	874.339	811.041	764.211	729.731	715.322
165.0	1010.199	1001.450	978.807	933.520	888.749	833.684	793.029	763.696	751.345
167.5	1002.994	995.275	975.719	938.152	899.556	853.754	819.275	795.602	785.310
170.0	993.216	986.012	969.544	940.725	908.819	872.795	845.006	824.936	817.731
172.5	980.866	975.205	961.825	940.211	915.509	889.778	868.164	853.754	848.094
175.0	964.398	960.795	952.561	937.637	920.655	903.673	889.263	879.485	875.883
177.5	945.871	944.327	939.696	932.491	924.257	915.509	908.304	903.673	901.099
180.0	925.287	925.287	925.287	925.287	925.287	925.287	925.287	925.287	925.287

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	162.75	N.A.	6.90
90-120	414.66	N.A.	17.60
90-130	777.63	N.A.	33.00
90-150	1648.73	N.A.	69.90
90-180	2358.94	N.A.	100.00
110-180	2196.19	N.A.	93.10
0-180	2358.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	31.98
100-110	130.77
110-120	251.90
120-130	362.98
130-140	433.03
140-150	438.07
150-160	373.45
160-170	249.32
170-180	87.43

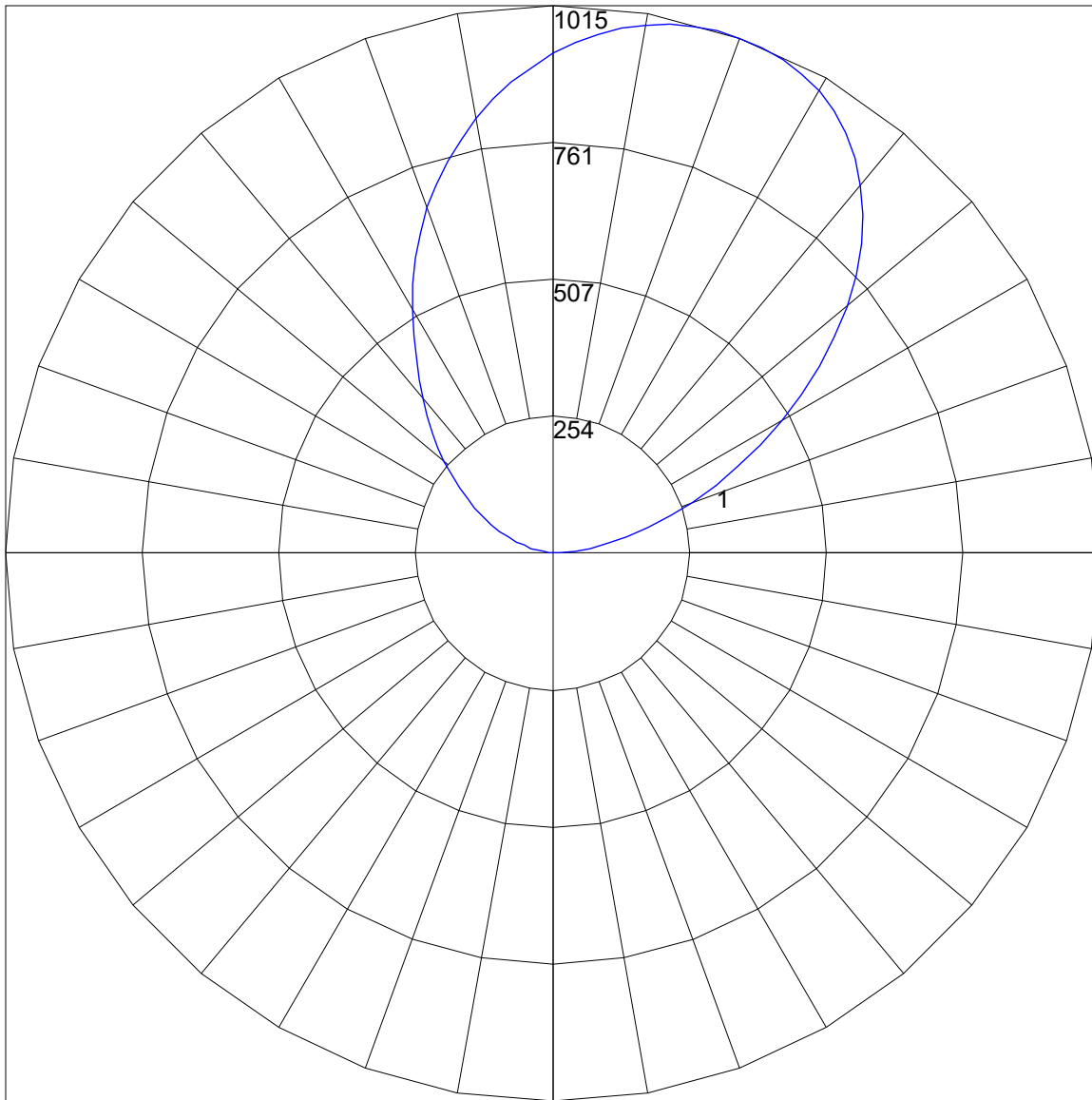
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1014.83 Located At Horizontal Angle = 0, Vertical Angle = 160
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)